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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/806,956	03/23/2004	Byung-Jin Choi	PA128/UTS-47-01D09	2332	
75	90 10/21/200		EXAMINER		
Kenneth C. Br	ooks	DOUGHERTY, THOMAS M			
Molecular Impr	ints, Inc.				
Legal Departme	ent	ART UNIT	PAPER NUMBER		
P.O. Box 81536	I	2834			
Austin, TX 78	708-1536		DATE MAILED: 10/21/2004	DATE MAILED: 10/21/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
		10/806,956	CHOI ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Thomas M. Dougherty	2834				
Period fo	The MAILING DATE of this communicator Reply	ion appears on the cover sheet with	the correspondence ad	ldress			
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA nsions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) date of period for reply is specified above, the maximum statuto are to reply within the set or extended period for reply will, reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no event, however, may a repation. ys, a reply within the statutory minimum of thirty y period will apply and will expire SIX (6) MONTI by statute, cause the application to become ABA	oly be timely filed (30) days will be considered timel HS from the mailing date of this or NDONED (35 U.S.C. § 133).	y. ommunication.			
Status							
1)⊠	Responsive to communication(s) filed o	n 22 September 2004.					
·	•	☑ This action is non-final.					
3)□	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)[🛛	Claim(s) 16-43 is/are pending in the app	olication.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>16-43</u> is/are rejected.						
7)							
8)□	Claim(s) are subject to restriction	and/or election requirement.					
Applicati	ion Papers						
9)	The specification is objected to by the Ex	kaminer.					
10)⊠ The drawing(s) filed on <u>22 September 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
<i>,</i> —	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by	the Examiner. Note the attached	Office Action or form PT	ГО-152.			
Priority ι	under 35 U.S.C. § 119						
-	Acknowledgment is made of a claim for		119(a)-(d) or (f).				
	1. Certified copies of the priority doc		nlination No				
		tuments have been received in Apparents have been		Stone			
	 Copies of the certified copies of the application from the International 	ne priority documents have been re	scerved in this National	Stage			
* 5	See the attached detailed Office action for		eceived.				
	and and and and and and the	or and dominal dopinal flat for	• •				
Attach	tte)						
Attachmen	t(s) e of References Cited (PTO-892)	4) Tilntan/iew Su	mmary (PTO-413)				
	e of Draftsperson's Patent Drawing Review (PTO-	948) Paper No(s)/	Mail Date				
	mation Disclosure Statement(s) (PTO-1449 or PTC r No(s)/Mail Date	5) Notice of Info 6) Other:	ormal Patent Application (PTC -)-152)			

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 16-43 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The independent claims note both a "subset" of "said plurality of axes" and some further note a "subgroup" of this "subset" of axes.

These terms themselves, "subset" and "subgroup" are only noted in the Summary of the Invention and in the claims, they are not discussed in the disclosure at all. What constitutes a "subset" and a "subgroup" is not known. It is understood that these refer to allowed movement, but how, structurally, this is achieved is not described. That is to say, it appears that some motions are allowed and others are not. Those allowed are perhaps outside of the subset axes while those not allowed or perhaps not possible to generate, constitute the subset axes. The terms subset and subgroup seem to be simply arbitrary terms that describe axes which the invention either is prevented from defining or having or incapable of defining or having.

Claims 23, 34 and 37-43, additionally note "a mount" which has no proper antecedent basis in the disclosure and is not referenced by a number in any of the figures.

Claim Rejections - 35 USC § 102

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 16-22, 27-33, as best understood, are rejected under 35 U.S.C. 102(b) as being anticipated by Ubhayakar (US 4,848,179). Ubhayakar shows (figs. 2, 3, 13) an apparatus to control displacement of a body (e.g. 56) spaced-apart from a surface (3), said apparatus comprising: a flexure system having first flexure (e.g. 5a) and a second flexure (e.g. any of 5b-5k) members; a body (56); and an actuation system (13) coupled to said flexure system with said body being coupled to said flexure system to move with respect to a plurality of axes (col. 6, II. 61-67) with said actuation system being configured to selectively constrain movement of said body along a subset of said plurality of axes (col. 5, I. 64 to col. 2, I. 2). Note that this last feature is regarded as a goal of the invention since the applicants note no structure to accomplish said selective constraint of movement.

As best understood, said actuation system provides resistance to movement of said body (col. 5, I. 64 to col. 2, I. 2) with respect to said subset, while allowing relatively free movement with respect to axes outside of said subset.

As best understood, the subset is coplanar with said body.

As best understood, the subset of axes includes two orthogonal axes.

As best understood, said actuation system provides resistance to translational displacement of said body with respect to a subgroup of said subset of axes, while

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allowing relatively free translational displacement with respect to axes outside of said subset, and resistance to rotational displacement of said body with respect to a subportion of said subgroup, while allowing relatively free rotational displacement of said body with respect to axes outside of said sub-portion. Note again, as Ubhayakar notes the claimed structure, this feature is regarded as being met by him.

As best understood, the subset of axes includes two substantially orthogonal axes and said subgroup includes an additional axis extending substantially orthogonally to said two orthogonal axes.

As best understood, said subgroup extends normal to a surface of said body.

Said actuation system further includes a plurality of actuators (13) to control displacement of said body (56).

Ubhayakar shows (figs. 2, 3, 13) an apparatus to control displacement of a body (56) spaced-apart from a surface (3), said apparatus comprising: a flexure system (e.g. fig. 5a); a body (56); and an actuation system (13) coupled to said flexure system with said body (56) being coupled to said flexure system to move with respect to a plurality of axes (col. II. 61-67) with said actuation system being configured to selectively constrain translational displacement of said body (56) with respect to a subset of said plurality of axes and to constrain rotational displacement of said body (56) with respect to a subgroup of said plurality of axes, as that is best understood.

As best understood, each of the axes associated with said subset differs from each of the axes associated with said subgroup.

As best understood, the actuation system provides resistance to translational

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displacement (col. 5, I. 64 to col. 6, I. 2)said body (56) with respect to said subset, while allowing relatively free translational displacement with respect to axes outside of said subset, and resistance to rotational displacement of said body with respect to a subportion of said subgroup, while allowing relatively free rotational displacement of said body with respect to axes outside of said sub-portion.

As best understood, the axes of said subset are coplanar with said body.

As best understood, the subset of axes includes two substantially orthogonal axes.

As best understood, the subset of axes includes two substantially orthogonal axes and said subgroup includes an additional axis extending substantially orthogonally to said two substantially orthogonal axes.

As best understood, said subgroup extends normal to a surface of said body.

Allowable Subject Matter

Claim 24-26, 35, 36 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the prior art does not show nor fairly suggest the flexure system connected to a flexure ring and further including a force sensor and a base plate. The prior art does not show first and second flexure members coupled together to defined a flexure system having eight joints which are spaced-apart from a pivot point defined by the intersection of said first and said second axis.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The remaining prior art cited reads on at least some aspects of the claimed invention.

Note that claims 23, 34 and 37-43 are so indefinite that a consideration of their relationship to the prior art cannot be made at this time. When they are made definite, such a consideration may be made.

Direct inquiry to Examiner Dougherty at (571) 272-2022.

October 18, 2004

HOMAS M. DOUGHERS